



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/820,155

DATE: 07/29/2004

TIME: 11:40:57

Input Set : A:\Sequence listing.ST25.txt
 Output Set: N:\CRF4\07292004\J820155.raw

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3 <110> APPLICANT: NatImmune A/S
4 Weilguny, Dietmar
5 Jensenius, Jens Christian
6 Kongerslev, Leif
7 Matthiesen, Finn
9 <120> TITLE OF INVENTION: Treatment of SARS in individuals
11 <130> FILE REFERENCE: P 774 US00
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/820,155
14 <141> CURRENT FILING DATE: 2004-04-08
16 <160> NUMBER OF SEQ ID NOS: 137
18 <170> SOFTWARE: PatentIn version 3.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 652
22 <212> TYPE: PRT
23 <213> ORGANISM: Homo sapiens
25 <400> SEQUENCE: 1
27 Met Ala Thr Ser Met Gly Leu Leu Leu Leu Leu Leu Leu Leu Thr
28 1 5 10 15
31 Gln Pro Gly Ala Gly Thr Gly Ala Asp Thr Glu Ala Val Val Cys Val
32 20 25 30
35 Gly Thr Ala Cys Tyr Thr Ala His Ser Gly Lys Leu Ser Ala Ala Glu
36 35 40 45
39 Ala Gln Asn His Cys Asn Gln Asn Gly Gly Asn Leu Ala Thr Val Lys
40 50 55 60
43 Ser Lys Glu Glu Ala Gln His Val Gln Arg Val Leu Ala Gln Leu Leu
44 65 70 75 80
47 Arg Arg Glu Ala Ala Leu Thr Ala Arg Met Ser Lys Phe Trp Ile Gly
48 85 90 95
51 Leu Gln Arg Glu Lys Gly Lys Cys Leu Asp Pro Ser Leu Pro Leu Lys
52 100 105 110
55 Gly Phe Ser Trp Val Gly Gly Glu Asp Thr Pro Tyr Ser Asn Trp
56 115 120 125
59 His Lys Glu Leu Arg Asn Ser Cys Ile Ser Lys Arg Cys Val Ser Leu
60 130 135 140
63 Leu Leu Asp Leu Ser Gln Pro Leu Leu Pro Ser Arg Leu Pro Lys Trp
64 145 150 155 160
67 Ser Glu Gly Pro Cys Gly Ser Pro Gly Ser Pro Gly Ser Asn Ile Glu
68 165 170 175
71 Gly Phe Val Cys Lys Phe Ser Phe Lys Gly Met Cys Arg Pro Leu Ala
72 180 185 190
75 Leu Gly Gly Pro Gly Gln Val Thr Tyr Thr Thr Pro Phe Gln Thr Thr
76 195 200 205
79 Ser Ser Ser Leu Glu Ala Val Pro Phe Ala Ser Ala Ala Asn Val Ala

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80	210	215	220
83	Cys Gly Glu Gly Asp Lys Asp Glu Thr Gln Ser His Tyr Phe Leu Cys		
84	225	230	235 240
87	Lys Glu Lys Ala Pro Asp Val Phe Asp Trp Gly Ser Ser Gly Pro Leu		
88	245	250	255
91	Cys Val Ser Pro Lys Tyr Gly Cys Asn Phe Asn Asn Gly Gly Cys His		
92	260	265	270
95	Gln Asp Cys Phe Glu Gly Asp Gly Ser Phe Leu Cys Gly Cys Arg		
96	275	280	285
99	Pro Gly Phe Arg Leu Leu Asp Asp Leu Val Thr Cys Ala Ser Arg Asn		
100	290	295	300
103	Pro Cys Ser Ser Ser Pro Cys Arg Gly Gly Ala Thr Cys Val Leu Gly		
104	305	310	315 320
107	Pro His Gly Lys Asn Tyr Thr Cys Arg Cys Pro Gln Gly Tyr Gln Leu		
108	325	330	335
111	Asp Ser Ser Gln Leu Asp Cys Val Asp Val Asp Glu Cys Gln Asp Ser		
112	340	345	350
115	Pro Cys Ala Gln Glu Cys Val Asn Thr Pro Gly Gly Phe Arg Cys Glu		
116	355	360	365
119	Cys Trp Val Gly Tyr Glu Pro Gly Gly Pro Gly Glu Gly Ala Cys Gln		
120	370	375	380
123	Asp Val Asp Glu Cys Ala Leu Gly Arg Ser Pro Cys Ala Gln Gly Cys		
124	385	390	395 400
127	Thr Asn Thr Asp Gly Ser Phe His Cys Ser Cys Glu Glu Gly Tyr Val		
128	405	410	415
131	Leu Ala Gly Glu Asp Gly Thr Gln Cys Gln Asp Val Asp Glu Cys Val		
132	420	425	430
135	Gly Pro Gly Gly Pro Leu Cys Asp Ser Leu Cys Phe Asn Thr Gln Gly		
136	435	440	445
139	Ser Phe His Cys Gly Cys Leu Pro Gly Trp Val Leu Ala Pro Asn Gly		
140	450	455	460
143	Val Ser Cys Thr Met Gly Pro Val Ser Leu Gly Pro Pro Ser Gly Pro		
144	465	470	475 480
147	Pro Asp Glu Glu Asp Lys Gly Glu Lys Glu Gly Ser Thr Val Pro Arg		
148	485	490	495
151	Ala Ala Thr Ala Ser Pro Thr Arg Gly Pro Glu Gly Thr Pro Lys Ala		
152	500	505	510
155	Thr Pro Thr Thr Ser Arg Pro Ser Leu Ser Ser Asp Ala Pro Ile Thr		
156	515	520	525
159	Ser Ala Pro Leu Lys Met Leu Ala Pro Ser Gly Ser Pro Gly Val Trp		
160	530	535	540
163	Arg Glu Pro Ser Ile His His Ala Thr Ala Ala Ser Gly Pro Gln Glu		
164	545	550	555 560
167	Pro Ala Gly Gly Asp Ser Ser Val Ala Thr Gln Asn Asn Asp Gly Thr		
168	565	570	575
171	Asp Gly Gln Lys Leu Leu Leu Phe Tyr Ile Leu Gly Thr Val Val Ala		
172	580	585	590
175	Ile Leu Leu Leu Leu Ala Leu Ala Leu Gly Leu Leu Val Tyr Arg Lys		
176	595	600	605

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179 Arg Arg Ala Lys Arg Glu Glu Lys Lys Glu Lys Pro Gln Asn Ala
 180 610 615 620
 183 Ala Asp Ser Tyr Ser Trp Val Pro Glu Arg Ala Glu Ser Arg Ala Met
 184 625 630 635 640
 187 Glu Asn Gln Tyr Ser Pro Thr Pro Gly Thr Asp Cys
 188 645 650
 191 <210> SEQ ID NO: 2
 192 <211> LENGTH: 742
 193 <212> TYPE: PRT
 194 <213> ORGANISM: Mus musculus
 196 <400> SEQUENCE: 2
 198 Met Lys Asp Asp Phe Ala Glu Glu Glu Val Gln Ser Phe Gly Tyr
 199 1 5 10 15
 202 Lys Arg Phe Gly Ile Gln Glu Gly Thr Gln Cys Thr Lys Cys Lys Asn
 203 20 25 30
 206 Asn Trp Ala Leu Lys Phe Ser Ile Val Leu Leu Tyr Ile Leu Cys Ala
 207 35 40 45
 210 Leu Leu Thr Ile Thr Val Ala Ile Leu Gly Tyr Lys Val Val Glu Lys
 211 50 55 60
 214 Met Asp Asn Val Thr Asp Gly Met Glu Thr Ser His Gln Thr Tyr Asp
 215 65 70 75 80
 218 Asn Lys Leu Thr Ala Val Glu Ser Asp Leu Lys Lys Leu Gly Asp Gln
 219 85 90 95
 222 Ala Gly Lys Lys Ala Leu Ser Thr Asn Ser Glu Leu Ser Thr Phe Arg
 223 100 105 110
 226 Ser Asp Ile Leu Asp Leu Arg Gln Gln Leu Gln Glu Ile Thr Glu Lys
 227 115 120 125
 230 Thr Ser Lys Asn Lys Asp Thr Leu Glu Lys Leu Gln Ala Asn Gly Asp
 231 130 135 140
 234 Ser Leu Val Asp Arg Gln Ser Gln Leu Lys Glu Thr Leu Gln Asn Asn
 235 145 150 155 160
 238 Ser Phe Leu Ile Thr Thr Val Asn Lys Thr Leu Gln Ala Tyr Asn Gly
 239 165 170 175
 242 Tyr Val Thr Asn Leu Gln Gln Asp Thr Ser Val Leu Gln Gly Asn Leu
 243 180 185 190
 246 Gln Ser Gln Met Tyr Ser Gln Ser Val Val Ile Met Asn Leu Asn Asn
 247 195 200 205
 250 Leu Asn Leu Thr Gln Val Gln Gln Arg Asn Leu Ile Ser Asn Leu Gln
 251 210 215 220
 254 Gln Ser Val Asp Asp Thr Ser Leu Ala Ile Gln Arg Ile Lys Asn Asp
 255 225 230 235 240
 258 Phe Gln Asn Leu Gln Gln Val Phe Leu Gln Ala Lys Lys Asp Thr Asp
 259 245 250 255
 262 Trp Leu Lys Glu Lys Val Gln Ser Leu Gln Thr Leu Ala Ala Asn Asn
 263 260 265 270
 266 Ser Ala Leu Ala Lys Ala Asn Asn Asp Thr Leu Glu Asp Met Asn Ser
 267 275 280 285
 270 Gln Leu Ser Ser Phe Thr Gly Gln Met Asp Asn Ile Thr Thr Ile Ser
 271 290 295 300

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Input Set : A:\Sequence listing.ST25.txt
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274 Gln Ala Asn Glu Gln Ser Leu Lys Asp Leu Gln Asp Leu His Lys Asp
275 305 310 315 320
278 Thr Glu Asn Arg Thr Ala Val Lys Phe Ser Gln Leu Glu Glu Arg Phe
279 325 330 335
282 Gln Val Phe Glu Thr Asp Ile Val Asn Ile Ile Ser Asn Ile Ser Tyr
283 340 345 350
286 Thr Ala His His Leu Arg Thr Leu Thr Ser Asn Leu Asn Asp Val Arg
287 355 360 365
290 Thr Thr Cys Thr Asp Thr Leu Thr Arg His Thr Asp Asp Leu Thr Ser
291 370 375 380
294 Leu Asn Asn Thr Leu Val Asn Ile Arg Leu Asp Ser Ile Ser Leu Arg
295 385 390 395 400
298 Met Gln Gln Asp Met Met Arg Ser Lys Leu Asp Thr Glu Val Ala Asn
299 405 410 415
302 Leu Ser Val Val Met Glu Glu Met Lys Leu Val Asp Ser Lys His Gly
303 420 425 430
306 Gln Leu Ile Lys Asn Phe Thr Ile Leu Gln Gly Pro Pro Gly Pro Arg
307 435 440 445
310 Gly Pro Lys Gly Asp Arg Gly Ser Gln Gly Pro Pro Gly Pro Thr Gly
311 450 455 460
314 Asn Lys Gly Gln Lys Gly Glu Lys Gly Glu Pro Gly Pro Pro Gly Pro
315 465 470 475 480
318 Ala Gly Glu Arg Gly Thr Ile Gly Pro Val Gly Pro Pro Gly Glu Arg
319 485 490 495
322 Gly Ser Lys Gly Ser Lys Gly Ser Gln Gly Pro Lys Gly Ser Arg Gly
323 500 505 510
326 Ser Pro Gly Lys Pro Gly Pro Gln Gly Pro Ser Gly Asp Pro Gly Pro
327 515 520 525
330 Pro Gly Pro Pro Gly Lys Asp Gly Leu Pro Gly Pro Gln Gly Pro Pro
331 530 535 540
334 Gly Phe Gln Gly Leu Gln Gly Thr Val Gly Glu Pro Gly Val Pro Gly
335 545 550 555 560
338 Pro Arg Gly Leu Pro Gly Leu Pro Gly Val Pro Gly Met Pro Gly Pro
339 565 570 575
342 Lys Gly Pro Pro Gly Pro Pro Gly Pro Ser Gly Ala Met Glu Pro Leu
343 580 585 590
346 Ala Leu Gln Asn Glu Pro Thr Pro Ala Ser Glu Val Asn Gly Cys Pro
347 595 600 605
350 Pro His Trp Lys Asn Phe Thr Asp Lys Cys Tyr Tyr Phe Ser Leu Glu
351 610 615 620
354 Lys Glu Ile Phe Glu Asp Ala Lys Leu Phe Cys Glu Asp Lys Ser Ser
355 625 630 635 640
358 His Leu Val Phe Ile Asn Ser Arg Glu Glu Gln Gln Trp Ile Lys Lys
359 645 650 655
362 His Thr Val Gly Arg Glu Ser His Trp Ile Gly Leu Thr Asp Ser Glu
363 660 665 670
366 Gln Glu Ser Glu Trp Lys Trp Leu Asp Gly Ser Pro Val Asp Tyr Lys
367 675 680 685
370 Asn Trp Lys Ala Gly Gln Pro Asp Asn Trp Gly Ser Gly His Gly Pro

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Input Set : A:\Sequence listing.ST25.txt
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371	690	695	700	
374	Gly Glu Asp Cys Ala Gly Leu Ile Tyr Ala Gly Gln Trp Asn Asp Phe			
375	705	710	715	720
378	Gln Cys Asp Glu Ile Asn Asn Phe Ile Cys Glu Lys Glu Arg Glu Ala			
379	725	730	735	
382	Val Pro Ser Ser Ile Leu			
383	740			
386	<210> SEQ ID NO: 3			
387	<211> LENGTH: 371			
388	<212> TYPE: PRT			
389	<213> ORGANISM: Bos taurus			
391	<400> SEQUENCE: 3			
393	Met Leu Leu Leu Pro Leu Ser Val Leu Leu Leu Thr Gln Pro Trp			
394	1	5	10	15
397	Arg Ser Leu Gly Ala Glu Met Lys Ile Tyr Ser Gln Lys Thr Leu Ala			
398	20	25	30	
401	Asn Gly Cys Thr Leu Val Val Cys Arg Pro Pro Glu Gly Gly Leu Pro			
402	35	40	45	
405	Gly Arg Asp Gly Gln Asp Gly Arg Glu Gly Pro Gln Gly Glu Lys Gly			
406	50	55	60	
409	Asp Pro Gly Ser Pro Gly Pro Ala Gly Arg Ala Gly Arg Pro Gly Pro			
410	65	70	75	80
413	Ala Gly Pro Ile Gly Pro Lys Gly Asp Asn Gly Ser Ala Gly Glu Pro			
414	85	90	95	
417	Gly Pro Lys Gly Asp Thr Gly Pro Pro Gly Pro Pro Gly Met Pro Gly			
418	100	105	110	
421	Pro Ala Gly Arg Glu Gly Pro Ser Gly Lys Gln Gly Ser Met Gly Pro			
422	115	120	125	
425	Pro Gly Thr Pro Gly Pro Lys Gly Asp Thr Gly Pro Lys Gly Met			
426	130	135	140	
429	Gly Ala Pro Gly Met Gln Gly Ser Pro Gly Pro Ala Gly Leu Lys Gly			
430	145	150	155	160
433	Glu Arg Gly Ala Pro Gly Glu Leu Gly Ala Pro Gly Ser Ala Gly Val			
434	165	170	175	
437	Ala Gly Pro Ala Gly Ala Ile Gly Pro Gln Gly Pro Ser Gly Ala Arg			
438	180	185	190	
441	Gly Pro Pro Gly Leu Lys Gly Asp Arg Gly Asp Pro Gly Glu Arg Gly			
442	195	200	205	
445	Ala Lys Gly Glu Ser Gly Leu Ala Asp Val Asn Ala Leu Lys Gln Arg			
446	210	215	220	
449	Val Thr Ile Leu Glu Gly Gln Leu Gln Arg Leu Gln Asn Ala Phe Ser			
450	225	230	235	240
453	Arg Tyr Lys Lys Ala Val Leu Phe Pro Asp Gly Gln Ala Val Gly Lys			
454	245	250	255	
457	Lys Ile Phe Lys Thr Ala Gly Ala Val Lys Ser Tyr Ser Asp Ala Gln			
458	260	265	270	
461	Gln Leu Cys Arg Glu Ala Lys Gly Gln Leu Ala Ser Pro Arg Ser Ala			
462	275	280	285	
465	Ala Glu Asn Glu Ala Val Ala Gln Leu Val Arg Ala Lys Asn Asn Asp			

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/29/2004
PATENT APPLICATION: US/10/820,155 TIME: 11:40:59

Input Set : A:\Sequence listing.ST25.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:37; Xaa Pos. 7

Seq#:75; Xaa Pos. 7

Seq#:94; Xaa Pos. 91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106

Seq#:94; Xaa Pos. 107,108,109,110,111,112,113,114,115,116

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/820,155

DATE: 07/29/2004
TIME: 11:40:59

Input Set : A:\Sequence listing.ST25.txt
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L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:4011 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:9259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:0
L:11454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:80
L:11458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:96
L:11462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:112